

**FULLY AUTOMATED PASTE DISPENSE SYSTEM
FOR DISPENSING SMALL DOTS AND LINES**

ABSTRACT OF THE DISCLOSURE

5 A method of dispensing a flowable conductive paste onto a greensheet from a dispensing apparatus comprising an orifice member having first and second surfaces and a bore therethrough between the surfaces, a pressurized chamber adjacent the orifice member first surface containing the paste, and a punch having a face movable through the orifice member bore. The method comprises positioning the punch
10 outside the orifice member bore such that the punch face is spaced from the orifice member first surface, flowing a desired amount of paste onto the punch face, moving the paste on the punch face through the orifice member bore until the punch face extends beyond the orifice member second surface, and contacting the workpiece with the paste while still on the punch face to deposit the paste on the greensheet. The
15 method then provides for retracting the punch until the punch face is substantially coplanar with the orifice member second surface, and then cleaning the punch face and coplanar orifice member second surface to remove any residual paste thereon.